

# UNITED STATE DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENT	TOR	ATTORNEY DOCKET NO.
08/225,027	04/08/94	ROZMAN	A	6
00/223,02/	047 067 54 NOLIMIN		<u></u>	EXAMINER
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S.H. DWORET	₽MA	21M1/0831	ART UNIT	PAPER NUMBER
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MURRAY HILL	, NJ 07974-		DATE MAILED:	08/31/95
is is a communication fro				•
This application has be	en examined	Responsive to communication file	d on	This action is made fina
hortonad etabutanı naria	d for monages to this a	ction is set to expire3	month(s) (O down	inner the date of this town.
		fill cause the application to become		
·		.,		
A! THE FOLLOWING	ATTACHMENT(S) AR	E PART OF THIS ACTION:		
1. Notice of Refere	nces Cited by Examine	or, PTO-892. 2.	Notice of Draftsman's F	atent Drawing Review, PTO-94
	ed by Applicant, PTO-1		Notice of Informal Pate	
	low to Effect Drawing (			
IN IN SUMMARY OF A	CTION			
-	_			
Claims	1-10	·		are pending in the application
Of the above	, claims		a	re withdrawn from consideration
Claims				have been cancelled.
Claims				are allowed.
Claims	-10	·		are rejected.
Claims				are objected to.
Claims			are subject to restrict	tion or election requirement.
This application has	s been filed with Inform	al drawings under 37 C.F.R. 1.85	which are acceptable for exa	mination purposes.
	e required in response			
		been received on explanation or Notice of Draftsma		
	tional or substitute she oproved by the examin	et(s) of drawings, filed on er (see explanation).	has (have) been	approved by the
The proposed draw	Ing correction, filed	, has been	□ approved; □ disapprove	d (see explanation).
		priority under 35 U.S.C. 119. The		received 🗖 not been received
		ndition for allowance except for for te Quayle, 1935 C.D. 11; 453 O.G.		to the merits is closed in
. Other			•	

Serial Number: **08** / 2, 5,027 Art Unit: 2111 -- ii --

#### PART III DETAILED ACTION

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If applicant desires priority under 35 U.S.C. § 120 based upon a parent application, specific reference to the parent application must be made in the instant application. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph. Status of the parent application (whether patented or abandoned) should also be If a parent application has become a patent, the expression "Patent No." should follow the filing date of the parent application. If a parent application has become abandoned, the expression "abandoned" should follow the filing date of the parent application.

## Drawings

2. The drawings are objected to because figure 9 has no elements labeled. Correction is required.

# Specification

- The disclosure is objected to because of the following 3. informalities: There is no discussion of figure 9, either in the Brief Description of the Drawings or elsewhere. Appropriate correction is required.
- The specification is replete with grammatical errors too numerous to mention specifically. The specification should be revised carefully. Examples of such errors are: page 3 line 4 "across" and page 2 lines 28 - 36 (punctuation).

### Double Patenting

The non-statutory double patenting rejection, whether of the obvious-type or non-obvious-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); In re Van Ornam, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); and In re Goodman, 29 USPQ2d 2010 (Fed. Cir.

A timely filed terminal disclaimer in compliance with 37 CFR 1.321 (b) and (c) may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.78 (d).

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Effective January 1, 1994, a registered attorney or agent of record may sign a Terminal Disclaimer. A Terminal Disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-10 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 of U.S. Patent No. 5,303,138. Although the conflicting claims are not identical, they are not patentably distinct from each other because discuss a power converter using two synchronous rectification devices. Figure 7 shows a flyback mode operation of a "a bipolar and synchronous rectifier device" which renders the claimed invention as an obvious variation of the previously described invention utilizing the use of a diode in place of the prior art figure 1's 105 MOSFET and an obvious modification in place of a fly-back converter.

Claim Rejections - 35 USC § 112

- Claims 1-10 rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.
- **N.B.** If applicant amends the disclosure (which includes the specification, claims or drawings) with wording not explicitly proposed by the USPTO, the applicant shall state in detail (including line(s) number(s) and page(s) and element(s) of the appropriate drawing figure(s)) where each amendment(s) finds support in the originally filed application.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Subject matter developed by another person, which qualifies as 80 prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.
- 85 7.Claims 1-5 are rejected under 35 U.S.C. § 103 as unpatentable over Basset (U.S. Patent 5,066,900) in view of the Principles of Solid-State Power Conversion, Tarter, 1st ed., 1985, p544-547. Basset (in prior art figure 2) discloses the general background of the invention. However, Basset does not explicitly

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8.Claims 5-10

teach the use of a MOSFET for a rectifier (diode D2). Principles of Solid-State Power Conversion, Tarter, 1st ed., 1985, p544-547. discusses the use of a MOSFET for a rectifier. It would have been obvious at the time the invention was made to utilize a MOSFET for a rectifier in the circuit of Bassett for the well-known reason of reducing the voltage drop across a rectifier device to conserve See Principles of Solid-State Power Conversion pgs 544-547.

are rejected under 35 U.S.C. § 103 as unpatentable over Basset (U.S. Patent 5,066,900) in view of the Principles of Solid-State Power Conversion, Tarter, 1st ed., 1985, p544-547 and further in view of Jitaru (U.S. Patent 5,126,931. Basset and Principles of Solid-State Power Conversion discloses the general background of the invention as discussed above. However, neither reference discusses the use of a clamping circuit to limit the voltage of the transformer during periodic recycling. Jitaru shows (in figure 1, element 32) the use of a clamping circuit in a single ended foward mode converter to limit the voltage of the transformer during periodic recycling. It would have been obvious at the time the invention was made to utilize a clamping circuit to limit the voltage of the transformer during periodic recycling into the combinations of Bassett and Principles of Solid-State Power well-known reason of establishing Conversion for the predetermined time interval between the turn off and turn on of the primary power switching transistor of a single ended configuration (30) to permit proper switching of the primary power switching transistor by minimizing stress and power loss to and by the primary power switching transistor. See Jitaru at column 8 line 31 et seq.

#### Conclusion

- 120 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Riley whose telephone number is (703) 305-3487 or 308-7619. The examiner may normally be reached Monday through Friday, 8:30 -5:30, est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Wong, can be reached at (703) 305-3477.

130 Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1782.

Any necessary fax can be sent to (703) 305-7723 or (703) 305-3431/2.

135 Tuesday, 22 August 1995

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SUPERVISORY PATENT EXAMINER

**GROUP 2100**